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summation. We are destined also to pass Great Britain in the production of pig iron.

—Under the title of "Zoölogy in the University of Tokio," Professor C. O. Whitman, late professor of zoölogy in the University of Tokio, discourses in a pamphlet of forty-four pages on the needs of a more complete endowment of a zoölogical department, and the natural advantages enjoyed by the Japanese zoölogist for the study of this science. It contains interesting facts regarding the land leech, the land planarian, the jumping fish, and other animals. Professor Whitman is at present in Naples, studying at the Zoölogical Laboratory, founded by Dr. Dohrn.

—In the Iowa Legislature, on the 20th of January last, a petition from the citizens of Pottawatomie county, and another by Messrs. Henderson and Calkins, were presented, asking for a thorough geological survey of the State. Both petitions were referred to the Committee of Ways and Means, which reported favorably on the project. Another move has been made looking toward the establishment of a Bureau of Agriculture, which shall sustain an entomologist, an office which is sadly needed.

—Queen, one of the group of elephants connected with Barnum's circus, at Bridgeport, Conn., gave birth to a baby elephant last night (February 3) at eight o'clock; weight, forty-five pounds. The other baby elephant weighed one hundred and twenty-six pounds at birth. At last reports mother and daughter were doing well.

—M. Pasteur has resolved to continue his researches into the means of preventing diseases by destroying or nullifying the virulence of the germs, and is about to visit the Bordeaux lazaretto, with a view of studying yellow fever, which he hopes to conquer by means of inoculation.

—A new and most valuable feature of the Census Reports for 1880 are the Forestry Bulletins, prepared by Mr. C. S. Sargent. Each number is accompanied by a map of some State, showing the distribution of forests, with special reference to the lumber industry.

—*Humboldt* is the title of a new monthly illustrated magazine of science in all departments, published at Stuttgart and edited by Dr. G. Krebs.

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## PROCEEDINGS OF SCIENTIFIC SOCIETIES.

BOSTON SOCIETY OF NATURAL HISTORY, Jan. 18, 1882.—Mr. Wm. M. Davis discussed the classification of Lake Basins, and Mr. F. W. Putnam spoke of the use of copper and bronze by the early races of America.

Feb. 1.—Professor Henry W. Haynes gave some indications of an early race of men in New England, and Mr. F. W. Putnam showed some interesting stone implements from Marshfield, Mass.

Mr. S. W. Garman spoke of a case of bird reasoning (?), and remarked on certain features of interest in the formation of cabinets.

NEW YORK ACADEMY OF SCIENCES, Jan. 9.—Dr. L. Johnson described the parallel drift hills of Western New York, and Professor J. S. Newberry remarked on hypothetical high tides as agents of geological change.

Jan. 30.—The following papers were read: The discovery of emeralds in North Carolina, illustrated with remarkable specimens, by Mr. Wm. Earl Hidden. Mr. George F. Kunz exhibited a series of ancient obsidian knives found near the city of Guatemala, C. A.

Feb. 6.—Professor J. S. Newberry remarked on the origin and relations of the carbon minerals.

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## SELECTED ARTICLES IN SCIENTIFIC SERIALS.

AMERICAN JOURNAL OF SCIENCE, February.—The flood of the Connecticut river valley from the melting of the Quaternary glacier, by J. D. Dana. Geology of the diamond, by O. A. Derby. A *Cercaria* with caudal setæ, by J. W. Fewkes. Notice of a remarkable marine fauna occupying the outer banks off the southern coast of New England, by A. E. Verrill.

QUARTERLY JOURNAL OF MICROSCOPICAL SCIENCE, January.—On the morphology of *Hemileia vastatrix* (the fungus of the coffee disease of Ceylon), by H. M. Ward. On the nature of the organ in adult Teleosteans and Ganoids, which is usually regarded as the head-kidney or pronephros, by F. M. Balfour. Observations on the resting stage of *Chlamydomyxa labyrinthuloides*, by P. Geddes. Review of recent researches in karyokinesis and cell division, by J. T. Cunningham. The micro-organisms which occur in septicæmia, by G. F. Dowdesnell. Pringsheim's researches on chlorophyll, translated and condensed by B. Balfour.

ZEITSCHRIFT FÜR WISSENSCHAFTLICHE ZOOLOGIE, December 30.—On the structure of the bird-inhabiting Sarcoptidæ, by G. Haller. On *Scoloplos armiger*, by W. Man. Comparative-embryological studies, by E. Metschnikoff. *Dimorpha nutans*, a connective form between the Flagellata and Heliosia, by A. Gruber. Contributions to a knowledge of Amœbæ, by A. Gruber. Contributions to a knowledge of Radiolarian shells, by O. Bütschli.

ZOOLOGICAL MAGAZINE, January.—Traces of a great post-glacial flood, by H. H. Haworth.

ANNALS AND MAGAZINE OF NATURAL HISTORY, December.—On certain points in the morphology of the Blastoidea, by P. H. Carpenter.